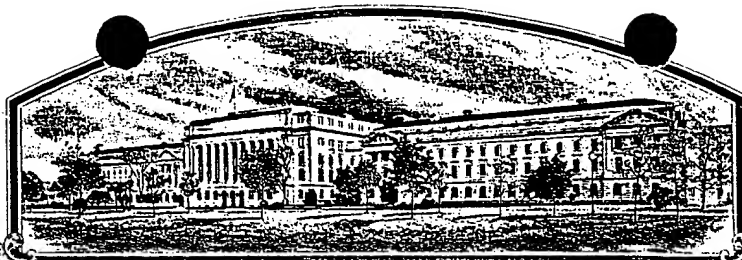


No.



9400281

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Limagrain Genetics Corp.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF EIGHTEEN YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR SELLING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321

CORN

'L163'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this thirty-first day of March in the year of our Lord one thousand nine hundred and ninety-seven.

Attest:

Marsha J. Stinson
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

[Signature]
Secretary of Agriculture

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Office, OIRM, Room 404-W, Washington, D.C. 20250-4046, and to the Office of Management and Budget, Paperwork Reduction Project (0581-0055), Washington, 20250.

FORM APPROVED: OMB #0581-0055, 1/1/91

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate) Limagrain Genetics Corp.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO. L163	3. VARIETY NAME L163 <i>245 3/7/97</i>
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP) P.O. Box 278 Kirkland, IL 60146		5. PHONE (include area code) 815-522-3246	FOR OFFICIAL USE ONLY PVPO NUMBER 1407281 F I L I N G Date <i>Sept. 26, 1994</i> Time <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. F E E S Filing and Examination Fee: \$ <i>2,325.00</i> Date <i>Sept. 26, 1994</i> R E C E I V E D Certificate Fee: \$ <i>300</i> Date <i>03-07-97</i>
6. GENUS AND SPECIES NAME Zeamays	7. FAMILY NAME (Botanical) POACEAE		
8. CROP KIND NAME (Common Name) Corn, Field	9. DATE OF DETERMINATION April 1987		
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) Corporation			
11. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware		12. DATE OF INCORPORATION April 5, 1978	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS John Lillstrom Limagrain Genetics Corp. P.O. Box 278, Kirkland, IL 60146 PHONE (include area code): 815-522-3246			
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS on reverse)			
a. <input checked="" type="checkbox"/> Exhibit A, Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B, Novelty Statement. c. <input checked="" type="checkbox"/> Exhibit C, Objective Description of Variety. d. <input checked="" type="checkbox"/> Exhibit D, Additional Description of Variety. e. <input checked="" type="checkbox"/> Exhibit E, Statement of the Basis of Applicant's Ownership. f. <input type="checkbox"/> Seed Sample (2,500 viable untreated seeds) Date Seed Sample mailed to Plant Variety Protection Office 22 September 1994 g. <input type="checkbox"/> Filing and Examination Fee (\$2,150) made payable to "Treasurer of the United States"			
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See section 83(a) of the Plant Variety Protection Act.) <input type="checkbox"/> YES (If "YES," answer items 16 and 17 below) <input checked="" type="checkbox"/> NO (If "NO," skip to item 18 below)			
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO		17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? <input type="checkbox"/> YES (If "YES," through <input type="checkbox"/> Plant Variety Protection Act <input type="checkbox"/> Patent Act. Give date: _____) <input checked="" type="checkbox"/> NO			
19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> YES (If "YES," give names of countries and dates) <input checked="" type="checkbox"/> NO			
20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF APPLICANT (Owner) <i>John Lillstrom</i>		CAPACITY OR TITLE Coordinator Research & Development	DATE 22 September 1994
SIGNATURE OF APPLICANT (Owner(s))		CAPACITY OR TITLE	DATE

Limagrain

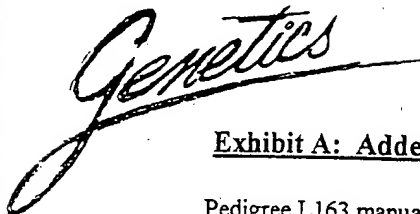


Exhibit A: Addendum - Origin and Breeding History

Pedigree L163 manual self pollination of (AIR551 x B73) x (AIR24 x B73).

L163 is derived from the cross of (AIR551 x B73) with (AIR24 x B73). AIR551 and AIR24 are Limagrain inbred lines which are of B14 in genetic origin. They are both maintained by Limagrain Genetics.

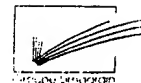
The pedigree breeding method was used and the developing inbred was top-cross tested at two stages of its development. The primary criteria for each stage of selection was high yield. Secondary criteria included disease resistance and general plant health. The variety has remained stable and uniform through out at least six generations of seed increase and at least two years of official testing in Europe. No variants were observed in the development of L163.

1982	F1 --> F2	Cremone, Italy
1983	F2 --> F3	Cremone, Italy
1984	F3 --> F4	Cremone, Italy
1984	F3 on tester observed	Europe & USA
1984-1985	F4 --> F5 Winter Nursery	Santiago, Chile
1985	F5 --> F6 F5 on tester observed	USA & Europe
1985-1986	F6 --> F7 Winter Nursery	Santiago, Chile

Limagrain Genetics Corporation P.O. Box 278, Kirkland, IL 60146 USA

Telephone 815/522-3246

Fax 815/522-7762



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Genetics

Exhibit B: Amended Novelty Statement

L163 is a unique inbred line which is most similar to B73 however L163 is earlier than B73. L163 requires an average of 1493 heat units from planting to male and female flowering. Whereas B73 requires an average of 1516 heat units from planting to male flowering and 1549 heat units to female flowering (Exhibit B-1).

See Exhibits B-2 through B-5 for additional significant differences between L163 and B73, such as, in number of Kernel rows, and ratings for northern and southern corn leaf blights.

Limagrain Genetics Corporation P.O. Box 278, Kirkland, IL 60146 USA

Telephone 815/522-3246

Fax 815/522-7762



3

Exhibit B-1

L 163 Inbred Flowering Data					
Year	Male Flowering		Female Flowering		
	Days	Heat Units	Days	Heat Units	
1990		1531		1507	2 Locations 2 Replications
1991	69	1476	69	1496	3 Locations 2 Replications
1992	85	1458	85	1469	4 Locations 2 Replications
1993	78	1505	78	1499	4 Locations 2 Replications
Average	77	1493	77	1493	
B 73 Inbred Flowering Data					
Year	Male Flowering		Female Flowering		
	Days	Heat Units	Days	Heat Units	
1990		1563		1602	2 Locations 2 Replications
1991	70	1476	71	1542	3 Locations 2 Replications
1992	85	1484	86	1504	4 Locations 2 Replications
1993	81	1539	82	1546	4 Locations 2 Replications
Average	79	1516	80	1549	

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Exhibit B-2

L 163 Plant Characteristics vs. B 73 Plant Characteristics																			
Plant Height (cm)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	Ave	Sam. Size	Std Dev.	
1993 Data		1	2	3	4	5	6	7	8	9	10	11	12	13	14				
L 163		216	212	225	196	202	219	216	209	216	224	218	208	228		214.5385	13	9.125198	
B 73		230	220	230	225	220	235	210	210	220	220	220	225	225		222.3077	13	7.250111	
1994 Data		1	2	3	4	5	6	7	8	9	10	11	12	13	14	Ave	Sam. Size	Std Dev.	
L 163		223	219	218	218	221	236	230	231	225	225	245	226			226.4167	12	8.050503	
B 73		241	226	250	237	227	254	245	242	251	239	245	248			242.0833	12	8.836477	
Ear Height (cm)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	Ave	Sam. Size	Std Dev.	
1993 Data		1	2	3	4	5	6	7	8	9	10	11	12	13	14				
L 163		88	75	92	84	86	84	88	93	76	87	80	87	88		85.23077	13	5.449065	
B 73		100	92	83	98	92	94	97	92	93	96	103	105	97		95.53846	13	5.621616	
1994 Data		1	2	3	4	5	6	7	8	9	10	11	12	13	14	Ave	Sam. Size	Std Dev.	
L 163		86	78	92	86	94	88	89	93	92	82	95	97			89.33333	12	5.613836	
B 73		105	112	115	89	110	112	98	116	115	94	112	104			106.8333	12	8.942578	
Length of Top Ear Node (cm)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	Ave	Sam. Size	Std Dev.	
1993 Data		1	2	3	4	5	6	7	8	9	10	11	12	13	14				
L 163		13.5	14.5	14	14.5	13	13	12.5	10	12.5	14	13	12.5	12.5		13.03846	13	1.180775	
B 73		13	14	13.5	13	13.5	12.5	13	13	12.5	14	13	13	13		13.15385	13	0.473665	
1994 Data		1	2	3	4	5	6	7	8	9	10	11	12	13	14	Ave	Sam. Size	Std Dev.	
L 163		15	14.5	14	14	14.5	13	14	14	13	13	13.5	12.5			13.75	12	0.753778	
B 73		12	12.5	16	14.5	12	12	14	15	13	15	14	16.5			13.875	12	1.582935	

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Exhibit B-3

L 163 vs. B 73 Husked Ear Characteristics																		
Ear Length (cm)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	Ave	Sam. Size	Std Dev.
1993 Data																		
L 163		17	13	16	15.5	13.5	16	16	14	14	15.5					15.05	10	1.321825
B 73		13	12.5	12	13	13	13.5	14	14	14	14					13.3	10	0.71492
1994 Data																		
L 163		1	2	3	4	5	6	7	8	9	10	11	12	13	14	Ave	Sam. Size	Std Dev.
		15	17.4	17	15	15.6	16	14.4	15.8	14.4	15.2					15.58	10	1.008629
B 73		13.8	15	13.4	13.3	13.6	12.8	12.4	13.4	14.6	13.6					13.59	10	0.76369
Ear Diameter (mm)																		
1993 Data		1	2	3	4	5	6	7	8	9	10	11	12	13	14	Ave	Sam. Size	Std Dev.
L 163		43	41	45	42	43	45	44	45	45	44					43.7	10	1.418136
B 73		45	49	48	46	45	48	46	49	48	47					47.1	10	1.523884
1994 Data		1	2	3	4	5	6	7	8	9	10	11	12	13	14	Ave	Sam. Size	Std Dev.
L 163		42.8	41.3	41.5	41.3	40.7	40.7	42.1	41.3	41.5	41.6					41.48	10	0.619677
B 73		43.9	41.6	43.7	43.6	42.2	43.4	43.4	44.6	43.6	42.7					43.27	10	0.873117
Number of Kernel Rows																		
1993 Data		1	2	3	4	5	6	7	8	9	10	11	12	13	14	Ave	Sam. Size	Std Dev.
L 163		14	14	14	14	14	16	14	14	14	14					14.2	10	0.632456
B 73		18	20	18	20	20	20	18	16	16	18					18.4	10	1.577621
1994 Data		1	2	3	4	5	6	7	8	9	10	11	12	13	14	Ave	Sam. Size	Std Dev.
L 163		16	14	14	14	12	14	16	14	14	16					14.4	10	1.264911
B 73		20	16	18	16	16	16	16	16	16	16					16.6	10	1.349897

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Exhibit B-4

L 163 vs. B 73 Tassel Characteristics																
Number of Primary Branches																
	1	2	3	4	5	6	7	8	9	10	Ave	Sam. Size	Std Dev.			
1993 Data																
L 163	4	5	5	5	4	5	5	4	3	4	4.4	10	1.48324			
B 73	6	6	6	6	5	5	8	7	6	6	6.1	10	2.0181			
1994 Data																
L 163	1	2	3	4	5	6	7	8	9	10	Ave	Sam. Size	Std Dev.			
B 73	7	6	5	7	6	5	6	6	6	6	6	10	1.916436			
	7	8	8	7	8	8	9	8	8	9	8	10	2.493628			
Branch Angle from Central Spike																
1993 Data																
L 163	1	2	3	4	5	6	7	8	9	10	Ave	Sam. Size	Std Dev.			
B 73	30	30	30	30	30	30	30	30	30	30	30	10	9.04534			
	20	20	30	30	25	30	20	20	20	20	23.5	10	8.393721			
1994 Data																
L 163	1	2	3	4	5	6	7	8	9	10	Ave	Sam. Size	Std Dev.			
B 73	30	35	35	40	45	45	30	30	30	35	35.5	10	12.11686			
	30	20	25	20	25	30	30	30	25	30	26.5	10	8.893307			
Length of Tassel (cm)																
1993 Data																
L 163	1	2	3	4	5	6	7	8	9	10	Ave	Sam. Size	Std Dev.			
B 73	28	35	35	36	39	34	31	36	40	38	35.2	10	11.15347			
	40	35	36	40	42	35	28	38	43	37	37.4	10	12			
1994 Data																
L 163	1	2	3	4	5	6	7	8	9	10	Ave	Sam. Size	Std Dev.			
B 73	40	35	40	39	38	37	41	37	43	37	38.7	10	11.88123			
	46	43	42	45	41	45	42	38	44	39	42.5	10	13.05582			

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Exhibit B-5

L 163 vs. B 73 Leaf Disease Ratings						
1992 and 1993 Data						
	NCLB	SCLB	Rust	GLS	Anth.	
L 163	2	2	6	4	5	
B 73	6	6	4	2	8	
* Ratings taken from Champaign and Kirkland, IL 1 = Most Suceptible 9 = Most Resistant.						
NCLB = Northern Corn Leaf Blight (<i>Exserohilum turcicum</i>)						
SCLB = Southern Corn Leaf Blight (<i>Bipolaris maydis</i>)						
Rust = Common Rust (<i>Puccinia sorghi</i>)						
GLS = Gray Leaf Spot (<i>Cercospora zeae-maydis</i>)						
Anth. = Anthracnose Leaf Blight (<i>Colletotrichum graminicola</i>)						

94 00281

FORM GR-47D-78
(2-16-74)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
COMMODITIES SCIENTIFIC SUPPORT DIVISION
BELTSVILLE, MARYLAND 20705
OBJECTIVE DESCRIPTION OF VARIETY
CORN (ZEA MAYS)

EXHIBIT C
(Com)

L163

NAME OF APPLICANT(S)

Limagrain Genetics Corp.

ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)

P.O. Box 278
Kirkland IL 60146

FOR OFFICIAL USE ONLY

SYNO NUMBER

VARIETY NAME OR TEMPORARY
DESIGNATION

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g., 0 8 9 or 0 9) when number is either 99 or less or 9 or less.

1. TYPE:

2

1 - SWEET 2 - DENT 3 - FLINT 4 - FLOUR 5 - POP 6 - ORNAMENTAL

2. REGION WHERE BEST ADAPTED IN THE U.S.A.:

2

1 - NORTHWEST 2 - NORTHCENTRAL 3 - NORTHEAST 4 - SOUTHEAST
5 - SOUTHCENTRAL 6 - SOUTHWEST 7 - MOST REGIONS

3. MATURITY (in Region of Best Adaptability):

8 3

DAYS FROM EMERGENCE TO 50% OF PLANTS IN SILK

DAYS FROM 50% SILK TO OPTIMUM EDIBLE QUALITY

DAYS FROM 50% SILK TO HARVEST AT 25% KERNEL MOISTURE

(Under "Comments" (pg. 3) state how
heat units were calculated)

1 5 2 7

HEAT UNITS

HEAT UNITS

HEAT UNITS Not observed

4. PLANT:

2 1 5

CM. HEIGHT (To tassel tip)

1 3

CM. LENGTH OF TOP EAR INTERNODE

0 8 6

CM. EAR HEIGHT (To base of top ear)

Number of Tillers:

1

1 - NONE 2 - 1-2 3 - 2-3 4 - > 3

Number of Ears Per Stalk:

1

1 - SINGLE 2 - SLIGHT TWO-EAR TENDENCY
3 - STRONG TWO-EAR TENDENCY 4 - THREE-EAR TENDENCY

Cytoplasm Type:

1

1 - NORMAL 2 - "T" 3 - "S" 4 - "C" 5 - OTHER (Specify)

5. LEAF (Field Corn Inbred Examples Given):

5GY3/4 MUNSELL CODE

Color:

3

1 - LIGHT GREEN (HY) 2 - MEDIUM GREEN (WF9) 3 - DARK GREEN (B14) 4 - VERY DARK GREEN (K166)

Angle from Stalk (Upper half):

1

1 - < 30° 2 - 30-60° 3 - > 60°

Sheath Pubescence:

1

1 - LIGHT (W22) 2 - MEDIUM (WF9)
3 - HEAVY (OH26)

Marginal Waxes:

2

1 - NONE (HY) 2 - FEW (WF9) 3 - MANY (OH7L)

Longitudinal Creams:

3

1 - ABSENT (OH51) 2 - FEW (OH56A)
3 - MANY (PA11)

Width:

0 3

CM. WIDEST POINT OF EAR NODE LEAF

0 7 0

CM. EAR NODE LEAF

0 6

NUMBER OF LEAVES PER MATURE PLANT (above the ear)

DATE OF RECEIPT
NO. OF COPIES

5465
10/24/96

9408281

6. Tassel:

NUMBER OF LATERAL BRANCHES (4.3)

Branch Angle from Central Spike:

1 - < 30°

2 - 30-40°

3 - > 45°

Panicle Length:

CM. FROM TOP LEAF TO BASAL BRANCHES

Pollen Shed:

1 - LIGHT (WF9)

2 - MEDIUM

3 - HEAVY (KY21)

Anther Color:

1 - YELLOW

2 - PINK

3 - RED

4 - PURPLE

5 - GREEN

Glueme Color:

6 - OTHER (Specify)

Pink/Orange Munseil 2.5YR6/4

Pollen Restoration for Cytoplasm (0 = Not Tested, 1 = Partial, 2 = Good)

"T"

"S"

"C"

OTHER (Specify Cytoplasm and degrees of restoration)

7. EAR (Husked Ear Data Except When Stated Otherwise):

CM LENGTH

MM. MID-POINT
DIAMETER

GM. WEIGHT

Kernel Rows:

1 - INDISTINCT

2 - DISTINCT

NUMBER

1 - STRAIGHT

2 - SLIGHTLY CURVED

3 - SPIRAL

Silk Color (Exposed at Silking Stage):

Munseil Code 2.5GY8/8

1 - GREEN

2 - PINK

3 - SALMON

4 - RED

Husk Color:

FRESH

1 - LIGHT GREEN

2 - DARK GREEN

3 - PINK

DRY

4 - RED

5 - PURPLE

6 - BUFF

Husk Extension: (Harvest Stage)

1 - SHORT (Ears Exposed) 2 - MEDIUM (Barely Covering Ear)

3 - LONG (8-10CM Beyond Ear Tip)

4 - VERY LONG (> 10 CM)

Husk Leaf: Not observed

1 - SHORT (< 8 CM)

2 - MEDIUM (8-15 CM)

3 - LONG (> 15 CM)

Shank:

CM LONG

Not observed

NO. OF INTERNODES

Position at Dry Husk Stage:

1 - UPRIGHT

2 - HORIZONTAL

3 - PENDENT

Taper:

1 - SLIGHT

2 - AVERAGE

3 - EXTREME

Drying Time (Unhusked Ear):

1 - SLOW

2 - AVERAGE

3 - FAST

8. KERNEL (Dried):

Size (From Ear Mid-Point):

MM LONG

MM. WIDE

MM. THICK

Shape Grade (X Rounds)

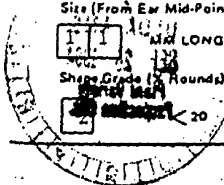
1 - ROUNDER

2 - 20-40

3 - 40-60

4 - 60-80

5 - > 80



8. KERNEL (Dried):

4

Pericarp Color: 1 = COLORLESS 2 = RED-WHITE 3 = TAN 4 = BRONZE
5 = BROWN 6 = LIGHT RED 7 = CHERRY RED
8 = VARIEGATED (Describe)

1

Aleurone Color: 1 = HOMOZYGOUS 2 = SEGREGATING (Describe)

9 5

Munsell 7.5YR 5/8
1 = WHITE 2 = PINK 3 = TAN 4 = BROWN 5 = BRONZE 6 = RED
7 = PURPLE 8 = PALE PURPLE 9 = VARIEGATED (Describe) Yellow

3 4

Endosperm Color: 1 = WHITE 2 = PALE YELLOW 3 = YELLOW 4 = PINK-ORANGE 5 = WHITE CAP.

7.5YR6/10

Endosperm Type:

3

1 = SWEET (wt) 2 = EXTRA SWEET (wt) 3 = NORMAL STARCH 4 = HIGH AMYLOSE STARCH
5 = WAXY STARCH 6 = HIGH PROTEIN 7 = HIGH LYSINE 8 = OTHER (Specify)

3 1

GM. WEIGHT /100 SEEDS (Unhulled Sample)

9. COB:

2 1

MM. DIAMETER AT MID-POINT

Strength:

3

1 = WEAK 2 = STRONG 3 = Intermediate

Color: Munsell 10R 4/7

3

1 = WHITE 2 = PINK 3 = RED 4 = BROWN
5 = VARIEGATED 6 = OTHER (Specify)

10. DISEASE RESISTANCE (0 = Not Tested, 1 = Susceptible, 2 = Resistant):

2

STALK ROT (Diplodia)

2

STALK ROT (Fusarium)

2

STALK ROT (Gibberella)

2

NORTHERN LEAF BLIGHT

2

SOUTHERN LEAF BLIGHT

2

SMUT

2

SOUTHERN RUST

2

CORN SMUT

2

BACTERIAL WILT

2

BACTERIAL LEAF BLIGHT

2

MAIZE DWARF MOSAIC

2

STUNT

2

OTHER (Specify)

Common Rust = 0
Gray Leaf Spot = 4

Anthraxnose Leaf Blight = 5

11. INSECT RESISTANCY (0 = Not Tested, 1 = Susceptible, 2 = Resistant):

2

CORNBORER

2

EARWORM

2

SAPBEETLE

2

APHID

2

ROOTWORM (Northern)

2

ROOTWORM (Western)

2

ROOTWORM (Southern)

2

OTHER (Specify)

12. VARIETIES MOST CLOSELY RESEMBLING THAT SUBMITTED FOR THE CHARACTERS GIVEN:

CHARACTER	VARIETY	CHARACTER	VARIETY
Maturity		Kernel Type	
Plant Type		Quality (Edible)	
Ear Type		Usage	

REFERENCES:

- U.S. Department Agriculture. Yearbook 1937.
- Corn: Culture, Processing, Products. 1970 Avi Publishing Company, Westport, Connecticut. (Numerous Authors)
- Emerson, R.A., G.W. Beadle, and A.C. Fraser. A Summary of Linkage Studies in Maize, Cornell A.E.S., Mem. 180. 1935.
- University of Maize. 1968. Crop Science Society of America, Madison, Wisconsin
- Simmonds, G.H. Maize Inbred Lines of Ohio, Ohio A.E.S. Bul. 831. 1959
- Simmonds, G.H. 1954 - A System for the Classification of Corn Inbred Lines - PhD. Thesis, Ohio State University.

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FORM APPROVED - OMB NO. 0581-0055

EXPIRES: 12-31-86

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) Limagrain Genetics Corp	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER L163	3. VARIETY NAME
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) PO Box 278 Kirkland IL 60146	5. TELEPHONE (include area code) 815-522-3241	6. FAX (include area code) 851-522-7762
7. PVPO NUMBER 9400281		
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
9. Is the applicant (individual or company) a U.S. national or U.S. based company? If no, give name of country <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
10. Is the applicant the original breeder? If no, please answer the following: a. If original rights to variety were owned by individual(s): Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO b. If original rights to variety were owned by a company: Is the original breeder(s) U.S. based company? If no, give name of country <input type="checkbox"/> YES <input type="checkbox"/> NO		
11. Additional explanation on ownership (If needed, use reverse for extra space):		

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

Public reporting burden for this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jennie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter.

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